ABSTRACT

1   The present invention provides a process for implementing a generic Cluster wide
2   lock broker that enables Clients attached to a Node on the Cluster to determine whether a
3   lock can be established on a Resource and whether conflicting active locks are already
4   held by another Peer Node. The process utilizes lock request that include a lock name
5   identifying the desired Resource. Each lock request is compared by a lock broker
6   daemon resident on each Node of the Cluster against a Lock Broker Table identifying
7   active locks currently held by any client associated with each specific Peer Node.
8   Additionally, the process enables the use and creation of customized locks by utilizing
9   intent modes, which designate how a Client desires to utilize a Resource, and deny
10   modes, which designate how a Client desires to prevent other Clients from utilizing a
11   Resource. Further, lock requests initially denied because an active lock exists for the
12   desired Resource can be placed in a wait state and re-requested upon releasing of the
13   active lock.